

What is claimed is:

1. A hermetically sealed housing comprising:
opposing, substantially planar first and second housing members coupled
5 together to form a hermetically sealed interior environment;
an internally mounted shaft having a medial portion which supports an
article rotatable within the interior environment, a proximal end
internally supported by the first housing member, and a distal end
opposite the proximal end; and
10 means for supporting the distal end of the shaft within the interior
environment.
2. The housing of claim 1, wherein the means for supporting
comprises an exterior surface on the distal end of the shaft and an interior recess
15 which extends into the second housing member a distance less than a full thickness
of the second housing member, wherein the exterior surface is guided into and
retained by the recess when the second housing member is brought into alignment
with the first housing member.
- 20 3. The housing of claim 2, wherein the exterior surface is tapered.
4. The housing of claim 2, wherein the means for supporting induces
localized bowing of the second housing member away from the shaft.
- 25 5. The housing of claim 2, wherein the means for supporting further
comprises a layer of compliant material disposed within the recess, wherein the
exterior surface compressingly engages the layer of compliant material.
- 30 6. The housing of claim 1, wherein the means for supporting
comprises a recess which extends into the distal end of the shaft and a pin affixed
to and which projects away from the second housing member, wherein the pin is
guided into and retained by the recess when the second housing member is brought
into alignment with the first housing member.

7. The housing of claim 6, wherein the means for supporting further comprises a layer of compliant material disposed within the recess, wherein the pin compressingly engages the layer of compliant material.

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8. The housing of claim 1 characterized as a housing for a data storage device.

9. The housing of claim 8, wherein the rotatable article comprises a rotary actuator which supports a data transducing head adjacent a data storage medium.

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10. The housing of claim 8, wherein the rotatable article comprises a data storage medium.

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11. A housing comprising:

a substantially planar first housing member formed from a first material and having opposing interior and exterior surfaces and a thickness therebetween;

5 a substantially planar second housing member formed from a second material and having opposing interior and exterior surfaces and a thickness therebetween, the second housing member coupled to the first housing member with the respective interior surfaces thereof in a facing relationship to form a hermetically sealed interior environment;

10 a rotatable article disposed within the interior environment; and an internally mounted shaft having an axis about which the rotatable article rotates, a proximal end and a distal end, the proximal end supported by the interior surface of the first housing member so that a continuous layer of the first material extends between the proximal end and the exterior surface of the first housing member along said axis, and the distal end supported by the interior surface of the second housing member so that a continuous layer of the second material extends between the distal end and the exterior surface of the second housing member along said axis.

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12. The housing of claim 11, wherein the first and second materials comprise a common material.

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13. The housing of claim 11, wherein the first and second materials comprise metal.

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14. The housing of claim 11, wherein at least a selected one of the proximal and distal ends is inserted into a recess in a corresponding one of the first and second housing members.

15. The housing of claim 14, wherein the at least a selected one of the proximal and distal ends comprises a tapered surface.

16. The housing of claim 11, wherein localized bowing is induced in the second housing member in a direction away from the shaft.

5 17. The housing of claim 11, wherein at least a selected one of the proximal and distal ends comprises a recess into which a pin is recessed, said pin projecting from the interior surface of a corresponding one of the first and second housing members.

10 18. The housing of claim 11, further comprising a layer of compliant material disposed between a selected one of the proximal and distal ends and the corresponding interior surface of the first and second housing members.

15 19. The housing of claim 11, wherein the housing is characterized as a housing of a data storage device, and wherein the rotatable article comprises a spindle motor which supports at least one rotatable recording disc.

20 20. The housing of claim 11, wherein the housing is characterized as a housing of a data storage device, and wherein the rotatable article comprises a rotary actuator which supports a data transducing head or a spindle motor which supports a data recording medium.